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1 [Program visualisation for visual programs](#)

James Noble, Robert Biddle

 January 2002 **AUIC '02: Proceedings of the Third Australasian conference on User Interface '02**, Volume 7
Publisher: Australian Computer Society, Inc.Full text available: [Pdf](#) (2.39 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited b](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 18, Citation Count: 1

The Nord Modular music synthesiser system comprises a stand-alone array of digital processors programmed by a dataflow visual language and supported by a visual programming environment that runs on commodity hardware. We have investigated applying ...

Also published in:

January 2002 **Australian Computer Science Communications** Volume 24 Issue 4**2** [A study in reading comprehension improvement](#)

Rodica Welyko

June 2002 **CUU '03: Proceedings of the 2003 conference on Universal usability****Publisher:** ACMFull text available: [Pdf](#) (226.02 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index t](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 31, Citation Count: 0

As everyday computing plays an increasingly prominent role in our daily lives, user reading comprehension is of vital importance for human progress. This paper proposes to improve the user reading comprehension by different factors. ...

Keywords: comprehension, factor, improvement, reading, user

Also published in:

June 2002 **SIGCAPH Computers and the Physically Handicapped** Issue 73-74**3** [GME: the generic modeling environment](#)

James Davis

 October 2003 **OOPSLA '03: Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**
Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (310.26 KB) **Additional Information:** [full citation](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 35, Citation Count: 0

Keywords: abstract system models, domain specific visual languages, model integration, computing, system synthesis

**Graphical user interface energy characterization for handheld computers**

Lin Zhong, Niraj K. Jha

October 2003 **CASES '03**: Proceedings of the 2003 international conference on Compilers and synthesis for embedded systems**Publisher:** ACM

Full text available: Pdf (183.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 81, Citation Count: 5

A significant fraction of the software and resource usage of a modern handheld comp to its graphical user interface (GUI). Moreover, GUIs are direct users of the display a determine how users interact with software. Given that displays ...

Keywords: GUI, energy characterization, graphical user interface, handheld comput power, low power design

5 [Linked active content: a service for digital libraries for education](#)

David Yaron, D. Jeff Milton, Rebecca Freeland

January 2001 **JCDL '01**: Proceedings of the 1st ACM/IEEE-CS joint conference on Digital**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 27, Citation Count: 2

A service is described to help enable digital libraries for education, such as the NSDL, collaboration spaces for the creation, modification and use of active learning experier is to redefine the line between those activities ...

Keywords: active learning, education, web authoring

6 [Java-based cyber technique for on-line engineering labs](#)

Ahmed O. Abdul Salam, Tarik Ozkul

June 2003 **PPPJ '03**: Proceedings of the 2nd international conference on Principles and programming in Java**Publisher:** Computer Science Press, Inc.

Full text available: Pdf (558.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 0

This paper is intended for the illustration and implementation of an engineering lab e using Java techniques and the Internet. An example of remotely operated white Gaus generator will be adopted for performance evaluation and verification. ...

Keywords: Java and LabVIEW programming, web-based and on-line engineering lab applications

7 [Piebes, dogs, and robots: the Umbra simulation framework as applied to building federates](#)

Eric J. Gottlieb, Michael J. McDonald, Fred J. Oppel, J. Brian Rigdon, Patrick G. Xavier

December 2002 **WSC '02**: Proceedings of the 34th conference on Winter simulation: exp frontiers**Publisher:** Winter Simulation Conference

Full text available: Pdf (281.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 20, Citation Count: 0

Sandia's Umbra modular simulation framework was designed to enable the modeling manufacturing, military, and security system concept evaluation. Umbra generalizes based simulation to enable modeling of heterogeneous interaction ...

8 Model driven development: the case for domain oriented programming

 Dave Thomas, Brian M. Barry

October 2003 **OOPSLA '03**: Companion of the 18th annual ACM SIGPLAN conference on oriented programming, systems, languages, and applications

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (219.50 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 139, Citation Count: 5

In this paper, we offer an alternative vision for domain driven development (3D). Our model driven and emphasizes the use of generic and specific domain oriented programming languages. DOP uses strong specific languages, which directly ...

Keywords: domain driven development, domain specific languages, end user programming, driven development, programming by professional end users

9 Low Power Control Techniques For TFT LCD Displays

 Franco Gatti, Andrea Acquaviva, Luca Benini, Bruno Ricco

October 2002 **CASES '02**: Proceedings of the 2002 International conference on Compilers and synthesis for embedded systems

Publisher: ACM

Full text available:  Pdf (314.45 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 127, Citation Count: 9

Display power consumption is often the most significant contributor to the overall power in many portable devices. Traditionally, liquid crystal display (LCD) power minimization on technology and circuit design. In this paper we take ...

10 Development of a digital instrument as a motivational component in teaching embedded computers

 Gracián Triviño, Felipe Fernández

May 2002 **WCAE '02**: Proceedings of the 2002 workshop on Computer architecture education in conjunction with the 29th International Symposium on Computer Architecture

Publisher: ACM

Full text available:  Pdf (70.23 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 0



Nowadays it is frequent that, at the first levels of Computer Engineering studies, the acquired some practical experience developing software projects. However, they have experience facing up the project of designing and ...

11 Transport Protocol Optimization for Energy Efficient Wireless Embedded System

Davide Bertozzi, Anand Raghunathan, Luca Benini, Srivaths Ravuri

March 2003 **DATE '03: Proceedings of the conference on Design, Automation and Test in Europe - Volume 1**, Volume 1

Publisher: IEEE Computer Society

Full text available:  [Publisher Site](#),  Pdf (162.21 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 30, Citation Count: 5

For wireless embedded systems, the power consumption in the network interface (radio) has a dominant role in determining battery life. In this paper, we explore transport protocol

for reducing the energy consumption of wireless LAN interfaces. ...

12 Analyzing the energy consumption of security protocols

Nachiketh R. Potlapally, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha

August 2003 **ISLPED '03**: Proceedings of the 2003 international symposium on Low power and design

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (271.69 KB) **Additional Information:** full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 211, Citation Count: 17

Security is critical to a wide range of wireless data applications and services. While se mechanisms and protocols have been developed in the context of the wired Internet, challenges arise due to the unique characteristics of ...

Keywords: 3DES, AES, DES, DSA, Diffie-Hellman, ECC, RSA, SSL, cryptographic alg embedded system, energy analysis, handheld, low-power, security, security protocol:

13 Input Space Adaptive Embedded Software Synthesis

Weidong Wang, Anand Raghunathan, Ganesh Lakshminarayana, Niraj K. Jha

January 2002 **ASP-DAC '02**: Proceedings of the 2002 conference on Asia South Pacific d automation/VLSI Design

Publisher: IEEE Computer Society

Full text available: [Publisher Site](#), [Pdf](#) (249.55 KB) **Additional Information:** full citation, abstract, refer

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 5, Citation Count: 0

This paper presents a novel technique, called input space adaptive software synthesis: energy and performance optimization of embedded software. The proposed technique the fact that the computational complexities of programs or sub-programs ...

14 An adaptive algorithm for low-power streaming multimedia processing

A. Acquaviva, L. Benini, B. Riccò

March 2001 **DATE '01**: Proceedings of the conference on Design, automation and test in

Publisher: IEEE Press

Full text available: [Pdf](#) (135.54 KB) **Additional Information:** full citation, references, cited by, index t

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 17, Citation Count: 9

15 Resources for using lego mindstorms

Holly Patterson-McNeill, Carol L. Binkerd

April 2001 Proceedings of the seventh annual consortium for computing in small college conference on The journal of computing in small colleges

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [Pdf](#) (69.16 KB) **Additional Information:** full citation, abstract, references, cited b

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 110, Citation Count: 2



LEGO® Mindstorms™ Robotic Invention System (RIS)™ is a programmable toy with education. This paper describes the basic features of the RIS. It supplies the reader v (Universal Resource Locator) to the online community ...

Keywords: LEGO, RCX, mindstorms, programming, robotics

Also published in:



April 2001 Proceedings of the twelfth annual CCSC South Central conference on The journal of computing in small colleges

March

16 [Advancements in 3D interactive devices for virtual environments](#) D. Wormell, E. FoxlinMay 2003 **EGVE '03**: Proceedings of the workshop on Virtual environments 2003**Publisher**: ACMFull text available:  Pdf (24.13 MB)**Additional Information**: [full citation](#), [abstract](#), [references](#), [index](#)**Bibliometrics**: Downloads (6 Weeks): 14, Downloads (12 Months): 97, Citation Count: 1

New commercially available interactive 3D tracking devices and systems for use in virtual environments are discussed. InterSense originally introduced the IS-900 scalable-area tracking system for virtual environments in 1999. In response to customer ...

Keywords: I²C Bus, inertial tracking, motion tracking, tracking in virtual environment tracking


17 [VXT: a visual approach to XML transformations](#) Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent QuintNovember 2001 **DocEng '01**: Proceedings of the 2001 ACM Symposium on Document**Publisher**: ACM Full text available:  Pdf (165.99 KB)**Additional Information**: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics**: Downloads (6 Weeks): 3, Downloads (12 Months): 56, Citation Count: 12

The domain of XML transformations is becoming more and more important as a result of increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations ...


Keywords: XML transformations, XSLT, circus, visual programming languages, zoom interfaces

18 [An interdisciplinary laboratory for computer science and engineering technology](#)

Ray Bachnak, Carl Stedley

April 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 5**Publisher**: Consortium for Computing Sciences in CollegesFull text available:  Pdf (106.72 KB)**Additional Information**: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics**: Downloads (6 Weeks): 5, Downloads (12 Months): 21, Citation Count: 3

This paper describes the development of a new Data Acquisition and Control Laboratory at A&M University-Corpus Christi (A&M-CC). The laboratory is being equipped with state-of-the-art instruments that offer several capabilities, including internet-based ...

19 [Understanding the semantics of sensor data](#) Murali ManiDecember 2003 **SIGMOD Record**, Volume 32 Issue 4**Publisher**: ACMFull text available:  Pdf (266.04 KB)**Additional Information**: [full citation](#), [abstract](#), [references](#)**Bibliometrics**: Downloads (6 Weeks): 2, Downloads (12 Months): 29, Citation Count: 1

Our system architecture to manage sensor data is described. Our data mining application uses the past history of the sensor data. Therefore, unlike most present systems that focus on current data, and cache a small window of historic data, we store ...

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[Visualising 1,051 visual programs module choice and layout in the Nord Modular](#)

language

James Noble, Robert Biddle

December 2001 **APVis '01: Proceedings of the 2001 Asia-Pacific symposium on Information visualisation - Volume 9**, Volume 9

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (2.66 MB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 5, Citation Count: 2

The Nord Modular music synthesiser system comprises a standalone array of digital signal processors programmed by a dataflow visual language and supported by a visual programming environment that runs on commodity hardware. A crucial difference between ...

Keywords: corpus analysis, software visualisation

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